Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A bone screw comprising:

an elongated tube ~~a thread section of elongated tubular construction with an outer wall and~~ having a first end~~, and~~ a second end and a tubular wall defining an interior opening extending from the first end to the second end, the ~~thread section~~tube being suitable for implanting in a living body;

a tip at the first end of the tube; and

an elongated holding element having a first end section connected to the ~~thread section at the~~ second end of the tube, ~~the holding element comprising a first section for connection to the second end of the thread section and~~ a second end section opposite the first end section having a surface configured to cooperate with a screw-in tool and an elongated rod-like ~~second~~ middle section between the first end section and the second end section having a longitudinal length~~ and a free end opposite the first section~~, the tube and the holding element defining a longitudinal axis extending from the first end to the second end of the tube and along the longitudinal length of the holding element from the first end section to the second end section;

wherein the ~~tubular thread section~~tube further comprises a bone thread on an outside surface of the ~~outer~~ tubular wall and the ~~outer~~ tubular wall ~~of the thread section contains~~ comprises a plurality of recesses through the tubular wall to the interior opening forming a mesh-like open network;

______wherein ~~an outer~~a diameter of the ~~holding element~~tube is greatest at ~~less than or equal to~~ an outer diameter of the bone thread ~~section~~ such~~,~~ that the tube is ~~bone screw can be~~ fully immersed in ~~the~~ an opening created when screwing in;

wherein the length of the middle section of the holding element extending along the longitudinal axis is greater than the greatest outer diameter of the bone thread of the tube; and

wherein the holding element is suitable to transfer torque applied to the second end section from a screw-in tool to the tube to screw-in and fully immerse the tube into a bone~~wherein the holding element further comprises a stop configured as an annular projection fixedly provided on the holding element located between the first section and the second section to prevent further penetration of the holding element into the thread section~~.

2. (Canceled)

3. (Currently Amended) A bone screw according to claim 1, wherein the ~~thread section~~tube further comprises a first internal thread section at its second end and the first end section of the holding element comprises an external thread for cooperation with the first internal thread section.

4. (Currently Amended) A bone screw according to claim 1, ~~comprising:~~

~~a thread section of elongated tubular construction with an outer wall and having a first end and a second end;~~

~~a tip at the first end; and~~

~~an elongated holding element connected to the thread section at the second end, the holding element comprising a first section for connection to the second end of the thread section and an elongated rod-like second section having a longitudinal length and a free end opposite the first section;~~

~~wherein the tubular thread section further comprises a bone thread on the outer wall and the outer wall of the thread section contains a plurality of recesses forming a mesh-like open network; and wherein the thread section and the holding element are dimensioned such, that the bone screw can be fully immersed in the opening created when screwing in~~ wherein the second end of the ~~thread section~~tube and the first end section of the holding element are fixed to each other along unthreaded surfaces so as to form a press fit that prevents movement in opposite directions along the longitudinal axis.

5. (Currently Amended) A bone screw according to claim 1, ~~further comprising~~wherein the second end section comprises an engagement element ~~at the free end of the holding element~~ for cooperation with a screw-in tool.

6. (Canceled)

7. (Currently Amended) A bone screw according to claim ~~5~~47, wherein the stop comprises a shoulder on the middle section of the holding element.

8. (Currently Amended) A bone screw according to claim 1, wherein the ~~thread section~~tube further comprises a stop located on ~~the~~ an inside surface of the ~~outer~~ tubular wall to engage and prevent further penetration of the holding element into the ~~thread section~~tube.

9. (Canceled)

10. (Currently Amended) A bone screw according to claim ~~1~~3, wherein the ~~thread section~~tube further comprises a second internal thread section at the first end.

11. (Currently Amended) A bone screw according to claim 1, wherein ~~the the first~~an internal thread section extends over ~~the whole~~a full length of the ~~thread section~~tube and the tip is structured and arranged to cooperate with the ~~first~~ internal thread section.

12. (Currently Amended) A bone screw according to claim ~~1~~3, wherein the first internal thread section comprises a metric or an inch thread.

13. (Original) A bone screw according to claim 1, wherein the tip is structured and arranged as a self-tapping tip.

14. (Original) A bone screw according to claim 1, wherein the tip comprises a cannula.

15. (Original) A bone screw according to claim 14, wherein the holding element comprises a cannula.

16. (Original) A bone screw according to claim 1, wherein the holding element comprises a cannula.

17. (Currently Amended) A bone screw comprising:

a ~~thread section of a~~ one-piece elongated tube~~tubular construction~~ with ~~an outer~~a tubular wall and having a first open end extending through the elongated ~~tubular construction~~tube to a second open end, the tube defining a longitudinal axis extending from the first open end to the second open end of the tube, the ~~outer~~ tubular wall containing a plurality of recesses through the tubular wall forming a mesh-like open network, the ~~thread section~~tube being suitable for implanting in a living body;

a tip connectable to the first open end of the tube; and

an engagement element at the second open end ~~capable of cooperating~~that cooperates with a screw-in tool;

wherein the ~~thread section~~tube further comprises:

a bone thread on an outside surface of the ~~outer~~ tubular wall and having a first length extending in a direction of the longitudinal axis;

an adjoining section free of bone thread and having a second length extending in the direction of the longitudinal axis, the adjoining section comprising the second end of the ~~thread section~~tube;

______wherein ~~the~~ a greatest diameter of the entire adjoining ~~said~~ section free of bone thread is less than or equal to ~~the~~a greatest outer diameter of the bone thread of the tube~~thread section~~ such that the bone screw ~~can be~~is fully immersed in ~~the~~ an opening created when screwing in;

wherein the second length of the adjoining section extending along the longitudinal axis is greater than the greatest outer diameter of the bone thread of the tube; and

wherein the adjoining section is suitable to transfer torque applied to the second open end from a screw-in tool to the bone thread to screw-in and fully immerse the bone thread into a bone.

18. (Currently Amended) A bone screw according to claim 17, wherein the engagement element comprises an internal thread section at the second open end that cooperates with a screw-in tool.

19. (Currently Amended) A bone screw according to claim 17, wherein the engagement element comprises an internal thread section at the second open end, and the bone screw further comprises a driving element that cooperates with the engagement element and further cooperates with a screw-in tool.

20. (Currently Amended) A bone screw according to claim 17, wherein the engagement element comprises an internal thread section at the second open end, and the bone screw further comprises a fixation element that cooperates with the engagement element for fixing the bone screw.

21. (Original) A bone screw according to claim 17, wherein the second length of the adjoining section is the same as or greater than the first length of the bone thread section.

22. (Currently Amended) A bone fixation device comprising a bone screw according to claim 1, a plate for fixation of a bone, the plate comprising a recess through which the ~~second end~~holding element can be passed, and a nut for cooperating with the ~~second end~~holding element to fix the plate.

23. (Currently Amended) A bone fixation device comprising a bone screw according to claim 1 and a marrow nail for fixing a bone, the marrow nail comprising a recess through which the ~~second end can be~~holding element is passed.

24-31. (Canceled)

32. (Currently Amended) A bone screw according to claim 1 further comprising~~:~~

~~a thread section of elongated tubular construction with an outer wall and having a first open end extending through the elongated tubular construction to a second open end;~~

~~a tip at the first end; and~~

~~an elongated holding element connected to the thread section at the second open end, the holding element comprising a first section for connection to the second open end of the thread section and an elongated rod like second section having a longitudinal length and a free end opposite the first section;~~

~~wherein the tubular thread section further comprises a bone thread on the outer wall and the outer wall of the thread section contains a plurality of recesses forming a mesh like open network; and wherein an outer diameter of the holding element is less than or equal to an outer diameter of the thread section such, that the bone screw can be fully immersed in the opening created when screwing in and wherein the bone screw further comprises~~ a nut, ~~and~~ wherein the ~~rod like section of the~~ holding element further comprises ~~a second~~an external thread ~~at the free end~~ ~~for cooperation~~opposite the first end section and cooperating with the nut when the tube is fully immersed in a bone.

33. (Currently Amended) A~~The~~ bone screw of claim 32, wherein the first end section of the holding element is connected to the second end of the ~~thread section~~tube by a threaded connection.

34. (Currently Amended) A~~The~~ bone screw of claim 32, wherein the first end section of the holding element is connected to the second end of the ~~thread section~~tube by a press fit connection that prevents movement in opposite directions along the longitudinal axis.

35. (Currently Amended) A~~The~~ bone screw of claim 1, wherein the first end section of the holding element is connected to the second end of the ~~thread section~~tube by a threaded connection.

36. (Currently Amended) A~~The~~ bone screw of claim 1, wherein the first end section of the holding element is connected to the second end of the ~~thread section~~tube by a press fit connection that prevents movement in opposite directions along the longitudinal axis.

37. (Currently Amended) A method of attaching a bone screw to a bone wherein the bone screw comprises an elongated tube having a first end, a second end and a tubular wall defining an interior opening extending from the first end to the second end, the tube being suitable for implanting in a living body;

a tip at the first end of the tube; and

an elongated holding element having a first end section connected to the second end of the tube, a second end section opposite the first end section having a surface configured to cooperate with a screw-in tool and an elongated rod-like middle section between the first end section and the second end section having a longitudinal length, the tube and the holding element defining a longitudinal axis extending from the first end to the second end of the tube and along the longitudinal length of the holding element from the first end section to the second end section;

wherein the tube further comprises a bone thread on an outside surface of the tubular wall and the tubular wall comprises a plurality of recesses through the tubular wall to the interior opening forming a mesh-like open network;

wherein a diameter of the tube is greatest at an outer diameter of the bone thread such that the tube is fully immersed in an opening created when screwing in; and

wherein a length of the middle section of the holding element extending along the longitudinal axis is greater than the greatest outer diameter of the bone thread of the tube;~~,~~ the method comprising:

connecting ~~an~~ the first end section of the elongated holding element to ~~a thread section at a~~the second end of the ~~thread section~~tube~~, the thread section having an outer wall including a first end, the second end and a tip at the first end, the thread section further comprising a bone thread on the outer wall and the outer wall of the thread section contains a plurality of recesses forming a mesh-like open network, the holding element comprising a first section for connection to the second end of the thread section and an elongated rod-like second section having a longitudinal length and a free end opposite the first section, the elongated holding element having a stop configured as an annular projection fixedly provided on the holding element and located between the first section and the second section~~;

attaching a screw-in tool to the surface of the second end section of the holding element; and

fully introducing~~screwing~~ the ~~thread section~~elongated tube into the bonewhile the screw-in tool is attached to the surface of the second end section~~, wherein at least a portion~~ of the holding element~~ is immersed into the bone;~~

~~wherein connecting the holding element to the thread section comprises inserting the first section of the holding element into the second end of the thread section until the stop of the holding element engages at least a portion of the second end of the thread section to prevent further insertion of the first section of the holding element into the second end of the thread section~~.

38. (Currently Amended) A ~~The~~ method of claim 37, further comprising filling at least a portion of ~~a thread section of~~the elongated ~~tubular construction~~tube with bone material.

39. (Currently Amended) A~~The~~ method of claim 38, further comprising filling the ~~thread section~~elongated tube with bone material before connecting the holding element to the ~~thread section~~elongated tube.

40. (Currently Amended) A~~The~~ method of claim 37, wherein connecting the holding element to the ~~thread section~~elongated tube comprises screwing a threaded portion of the first

end section of the holding element into a threaded inner portion of the second end of the ~~thread section~~elongated tube.

41. (Currently Amended) A~~The~~ method of claim 37, wherein connecting the holding element to the ~~thread section~~elongated tube comprises press fitting the first end section of the holding element into the second end of the ~~thread section~~elongated tube to prevent movement in opposite directions along the longitudinal axis.

42. (Currently Amended) A~~The~~ method of claim 37, further comprising removing the holding element after the ~~thread section~~elongated tube is immersed into the bone.

43. (New) The method of claim 37 further comprising attaching a fixation device to the holding element.

44. (New) A method of claim 38 further comprising shortening the holding element.

45. (New) A method of claim 43 wherein before attaching the fixation device, the method further comprises removing the holding element from the bone screw, applying a filler material into the interior opening of the tube, and reconnecting the holding element to the tube.

46. (New) A method of claim 43 wherein the fixation device comprises a plate of a marrow nail.

47. (New) A bone screw according to claim 1 further comprising a stop for limiting a distance of insertion of the holding element into the tube.

48. (New) A bone screw according to claim 47 wherein the stop is configured as a projection on the holding element, the projection extending in a direction transverse to the longitudinal axis, the first end section protruding from the projection in a direction away from the second end section in the direction of the longitudinal axis, the projection preventing further penetration of the holding element into the tube.

49. (New) A bone screw according to claim 48, wherein a greatest outer diameter of the projection is less than or equal to the greatest outer diameter of the bone thread of the tube so that it does not form an obstacle in the bone opening when the bone screw is screwed into the bone.

50. (New) A bone screw according to claim 1 wherein one of the first end section of the holding element and the tubular wall is located inside the other of the first end section of the holding element and the tubular wall to form an overlap along the longitudinal axis, the length of the middle section of the holding element being longer than the overlap when the holding element and the elongated tube are fully assembled to each other.